

PCT-US02-40423-19

; GENERAL INFORMATION:

; TITLE OF INVENTION: HIGH FIDELITY DNA POLYMERASE COMPOSITIONS AND USES THEREFOR

; CURRENT APPLICATION NUMBER: PCT/US02/40423

; NUMBER OF SEO ID NOS: 127

; SEQ ID NO 19

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; TYPE: PRT
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Best Local Similarity 100.0%;

Matches 775; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 MILDVDYITEEGKPVIRLFKKENGKFKIEHDRTFRPYIYALLRDDSKIIEVKKITGERHG 60

Dh 61 KIVBIVDVEKVEKKFLGKPI TVWKLYLEHPDVP TIREKVB EHPAVVDIF EYDIPFAKBY 120

Dh 121 LIDKGLIPMEGEEELKILAFDIETLYHEGEEFGKGPIIMISYADENEAKVITWKNIDLPY 180

Db 181 VEVVSSSEREMIKRFLRIIREKDPDIIVTYNGDSFDFPYLAKRAEKLGIKLTIGRDGSEPK 240

Db 241 MORIGDMTAVEVKGRIHFDLYHVITRTINLPTYTLEAVYEAIFGKPKEKVYADEIAKAW 300

Db 301 SGENLERVAKYSMEDAKATYELGKEFLPMEIQLSRLVGOPLDVVSRSSTGNLVEWELLBK 360

Dh 361 AYERNEVAPNKPSEFFEYOBBLBESYTGGEVKEPEKGLWENIVYLDFAALYPSIIITHNVS 420

Db 421 PDTLNLEGCKNYDIAPOVGHKCKDIPGFIPSLIGHLLFEEROKIKTKMKETODPIEKILL 480

Ov 481 DYROKAIKLLANSFYGYGYAKARWYCKECAESVTAWGRKYIELVWKELEEKFGFKVLYI 540

Db	481	 DYRQKAIKLLANSFYGYGYAKARWYCKECAESVTAWGRKYIELVWKELEEKFGFKVLYI	540
Qy	541	<u>DTD</u> GLYATIPGGESEEEIKKKALEFVKYINSKLPGLLELEYEGFYKRGFFVTKKRY <u>Y</u> AVIDE	600
Db	541	 DTDGLYATIPGGESEEEIKKKALEFVKYINSKLPGLLELEYEGFYKRGFFVTKKRYAVIDE	600
Qy	601	EGKVITRGLEIVRRDWSEIAKETQARVLETILKHGDVEEAVRIVKEVIQKLANYEIPPEK	660
Db	601	 EGKVITRGLEIVRRDWSEIAKETQARVLETILKHGDVEEAVRIVKEVIQKLANYEIPPEK	660
Qy	661	LAIYEQITRPLHEYKAIGPHVAVAKKLAAGVKIKPGMVIGYIVLRGDGPISNRILAEE	720
Db	661	 LAIYEQITRPLHEYKAIGPHVAVAKKLAAGVKIKPGMVIGYIVLRGDGPISNRILAEE	720
Qy	721	YDPKKHKYDAEYYIENQVLPVAVLRILEGFGYRKEDLRYQKTRQVGLTSWLNKKS	775
Db	721	 YDPKKHKYDAEYYIENQVLPVAVLRILEGFGYRKEDLRYQKTRQVGLTSWLNKKS	775